

PLANTS NEW TO ARKANSAS, OKLAHOMA AND TEXAS

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ABSTRACT

The following taxa are reported new to ARKANSAS: *Hypoxis longii*; OKLAHOMA: *Aristida roemeriana*, *Eragrostis refracta*, *Gymnopogon brevifolius*, *Panicum birticaule*, *Paspalum langei*, *Paspalum notatum*, *Carex albursina*, *Carex careyana*, *Carex hitchcockiana*, *Hymenocallis caroliniana*, *Fatoua villosa*, *Chenopodium glaucum*, *Mirabilis gigantea*, *Ranunculus sardous*, *Camelina sativa*, *Cardamine hirsuta*, *Alchemilla microcarpa*, *Rubus cuneifolius*, *Melilotus indica*, *Hibiscus moscheutos*, *Samolus cuneatus*, *Lithospermum multiflorum*; and from TEXAS: *Hypoxis longii* and *Rudbeckia triloba*. *Isoetes butleri*, type location in Oklahoma, has been recollected for the first time in over 100 years from that state.

The following taxa, except *Isoetes butleri*, are thought to be newly reported to the Arkansas, Oklahoma, or Texas floras. All specimens cited are deposited at the Southeastern Oklahoma State University Herbarium (DUR) unless otherwise indicated. Duplicates of most of these species will be distributed in our regular exchange program.

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ISOETES BUTLERI Engel. OKLAHOMA. Choctaw Co.: 0.5 mi SW of Ft. Towson, 19 Apr 1980, J. & C. Taylor 28743; Johnston Co.: on limestone at Blue River Public Hunting Area, about 8.4 mi NE of Tishomingo, 19 Jun 1980, J. Taylor 29298; McCurtain Co.: shallow pools on limestone, 6.7 mi N of the Red River along OK 98, SE of Valliant, 15 Apr 1980, J. & C. Taylor 28688. The type location for this species is Limestone Gap in Atoka County, Oklahoma. It was collected by Mr. Butler from Indian Territory over 100 years ago (Engelmann, 1878). This one specimen had remained the only documentation of this species occurrence in Oklahoma despite numerous efforts to relocate it. In the Spring of 1980, while investigating *Leavenworthia aurea*, a local Oklahoma and Texas endemic, this species was finally recollected from several limestone areas.

ARISTIDA ROEMERIANA Scheele. OKLAHOMA. Love Co.: limestone hill,

about 8 mi W of Marietta, 16 May 1978, *J. Taylor 26049*.

ERAGROSTIS REFRACTA (Muhl.) Scribn. OKLAHOMA. McCurtain Co.: pine forest around pond at Bokhoma Recreational area in the Ouachita National Forest, SE of Idabel, 13 Sep 1974, *J. & C. Taylor 16946*.

GYMNOPOGON BREVIFOLIUS Trin. OKLAHOMA. Pushmataha Co.: hillside bog, 3.5 mi SE of Antlers along OK 3 & 7, 19 Oct 1979, *J. & C. Taylor 28493*.

PANICUM HIRTICAULE Presl. OKLAHOMA. Cimarron Co.: along Cimarron River, 5 mi N of Kenton, sandy soil, 25 Sep 1976, *J. Taylor 23724C*.

PASPALUM LANGEI (Fourn.) Nash. OKLAHOMA. Marshall Co.: sandy beach and disturbed habitat adjacent to Lake Texoma, 2 mi E and 1.25 mi S of Enos, 6 Jun 1980, *J. & C. Taylor 29051*; McCurtain Co.: below dam of Barney Ward Lake, 1.5 mi W and 1.5 mi S of Tom, 11 Sep 1979, *J. Taylor 28178*.

PASPALUM NOTATUM Flugge. OKLAHOMA. Bryan Co.: sand dune area of Red River, 3 mi S of Albany, 30 Jun 1972, *J. & C. Taylor 10931*; McCurtain Co.: Loblolly pine forest, 3 mi SE of Haworth, burned over area in Spring of 1971, 22 Jul 1972, *J. & C. Taylor 11147*; Pushmataha Co.: from area adjacent to bog, about 6 mi W and 2.9 mi S of Antlers, 22 Oct 1975, *J. Taylor 20942*. An introduced cultivated pasture grass, this species has established itself in southeastern Oklahoma.

CAREX ALBURSINA Sheldon. OKLAHOMA. Leflore Co.: mesic north-facing slope on Rich Mountain about 150 yds W of the Okla-Ark state line, near OK 1, 30 Aug 1979, *J. Taylor 28123*.

CAREX CAREYANA Dewey. OKLAHOMA. Leflore Co.: mesic north-facing slope on Rich Mountain about 150 yds W of the Okla-Ark state line, near OK 1, 30 Aug 1979, *J. Taylor 28127*, and north slope of Rich Mountain, 5.5 mi NE of Big Cedar, 3 Jul 1980, *J. Taylor 29386*, and 31 May 1980, *J. Taylor 28981*.

CAREX HITCHCOCKIANA Dewey. OKLAHOMA. Leflore Co.: mesic north-facing slope on Rich Mountain about 150 yds W of the Okla-Ark state line, near OK 1, 30 Aug 1979, *J. Taylor 28122*.

HYMENOCALLIS CAROLINIANA (L.) Herb. OKLAHOMA. Choctaw Co.: sandy pasture about 0.5 NE of US 70 bridge over Boggy River, 7 Aug 1979, *J. & C. Taylor 27924* and in bar ditch along US 70, 0.5 mi W of Choctaw-McCurtain Co. line, 22 Jul 1972, *J. & C. Taylor 11156*; McCurtain Co.: Beavers Bend State Park, transplanted and grown as a house plant in authors' home for 3 years before it bloomed in the summer of 1979; low lying area along Little River, 5.5 mi S of Broken Bow, 29 Aug 1976, *J. Taylor 23286*; and Glover River, creek bottom in rocky area, 22 Jul 1972, *K. Williams s.n.*; Pushmataha Co.: grassland about 4.6 mi E of Antlers along OK 3 & 7, 30 Jul 1979, *J. Taylor 27842*.

HYPOXIS LONGII Fern. ARKANSAS. Clark Co.: edge of woods along roadside of Ark 8, 3 mi W of its jct with I-30, 26 Aug 1979, *J. & C. Taylor*

28082; Columbia Co.: Natural pine-hardwood forest along US 82, 0.6 mi W of its jct with Ark 98, just E of Waldo, frequent, 25 Aug 1979, *J. & C. Taylor* 28020; Lafayette Co.: pine woods along both sides of road, 1.6 mi W of Lewisville, 25 Aug 1979, *J. & C. Taylor* 28018; Miller Co.: 0.6 mi W on Ark 160 from its jct with 237, then 0.2 mi E on dirt road in a traffic triangle, only 2 plants, 25 Aug 1979, *J. & C. Taylor* 28012 and along Ark 134, 0.2 mi E of its jct with US 71, about 2 mi S of Fouke, abundant, 25 Aug 1979, *J. & C. Taylor* 28016; Sevier Co.: 6.5 mi N of DeQueen along US 71, 29 Apr 1980, *J. Taylor* 28850. TEXAS. Bowie Co.: along Tex 8 about 3 mi W and 2.8 mi N of Maud, infrequent, 25 Aug 1979, *J. & C. Taylor* 28004; Cass Co.: rest stop 3.2 mi E of Douglasville along US 77, 25 Aug 1979, *J. & C. Taylor* 28009. This species, originally considered for the National Endangered Species List and thought to be perhaps extinct, was rediscovered in Oklahoma (Taylor & Taylor, 1977). Recent investigations (Taylor and Taylor, 1980) indicate it is perhaps a very widespread but unrecognized constituent of the understory of Loblolly pine forests.

FATOUA VILLOSA (Tunb.) Nakai. OKLAHOMA. McCurtain Co.: woods, 1.6 mi N of Philadelphia Cemetery in Goodwater Community, 13 mi NE of Idabel, Sec 15, T7S, R26E, 24 Mar 1979, *Clifford Citty, s.n.* (NLU, DUR).

CHENOPODIUM GLAUCUM L. OKLAHOMA. Cleveland Co.: along South Canadian River SW of Norman near site of old 2 lane highway bridge, 6 Jul 1976, *J. Taylor* 22895.

MIRABILIS GIGANTEA (Stand.) Shinners. OKLAHOMA. Greer Co.: in campground along stream below the dam in Quartz Mountain State Park, 9 Jul 1976, *J. Taylor* 22507.

RANUNCULUS SARDOUS Crantz. OKLAHOMA. Atoka Co.: McGee Creek Project Area in pasture, west side of Potapo Creek, 12 mi E and 1 mi N of Atoka, NW 1/4, Sec 11, T2S, R13E, 24 May 1979, *J. Taylor* 27496; McCurtain Co.: bottomland along McKinney Creek east of Tom along OK 3, common, 4 Jun 1976, *J. & C. Taylor* 21580.

CAMELINA SATIVA (L.) Crantz. OKLAHOMA. Caddo Co.: low shale-caped mounds, 6.5 mi W, 0.75 mi S of Hinton, 11 May 1973, *J. & C. Taylor* 13052; Grady Co.: field near Chickasha, 18 Apr 1937, *G. Mitchell s.n.* (OKL); Grant Co.: 20 mi W of Medford, roadside, loose sandy soil, common, 30 Apr 1974, *S. Stevens* 74821 (OKL); Lincoln Co.: 10 mi N of Shawnee on OK 18 at Pottawatomie-Lincoln Co. line, 14 Apr 1969, *K. & M. Crook* and *J. Massey* 863 (OKL); Pottawatomie Co.: 8 mi W of Shawnee Lake Road and 100 yds S on OK 102, 21 Apr 1973, *J. Heer* 81.

CARDAMINE HIRSUTA L. OKLAHOMA. Choctaw Co.: Raymond Gary Lake Park, east side of reservoir on limestone about 1.9 mi SE of Ft. Towson, 30 Mar 1980, *J. & C. Taylor* 28612; Leflore Co.: south end of Poteau City Park in Poteau, 24 Mar 1979, *R. M. West* 3; and in yard 702 E. Creek Ave, Heavener, *C. Howze* and *J. Olive* 64; McCurtain Co.: near west end of Broken Bow Dam on Mt. Fork River, 24 Apr 1971, *J. & C. Taylor* 7640;

and limestone bluff at Goodwater area, 15.5 mi NE of Idabel, 7 Apr 1978, *J. Taylor 25798B*.

ALCHEMILLA MICROCARPA Boiss & Ruet. OKLAHOMA. McCurtain Co.: edge of road about 100 yds W of Cerro Gordo, 3 May 1980, *J. Taylor 28896*.

RUBUS CUNEIFOLIUS Pursh. OKLAHOMA. Leflore Co.: mesic forest, north slope of Rich Mountain about 7 mi E of jct of OK 1 and US 259, 25 Sep 1979, *J. Taylor 28247*.

MELILOTUS INDICA (L.) All. OKLAHOMA. Bryan Co.: 0.75 mi E of Cobb in pasture on south side of road, 24 Apr 1976, *D. Ellis 84*; Choctaw Co.: 2 mi E and 2 mi S of Hugo, sandy well drained roadside ditch, 10 May 1969, *J. Askew 92*, and 2 mi E, 1 mi S of Hugo, open field, 10 May 1969, *J. Askew 93*. Love Co.: 16 mi West of Marietta, sandy roadside OK 32, 13 May 1976, *J. & C. Taylor 21089*.

HIBISCUS MOSCHEUTOS L. OKLAHOMA. McCurtain Co.: collected along Waterfall Creek, 8 mi S and 2 mi E of Idabel near US 259, 11 Sep 1979, *J. Taylor 28164*.

SAMOLUS CUNEATUS Small. OKLAHOMA. Bryan Co.: sand dunes of Red River, 3 mi S of Albany, 30 Jun 1972, *J. & C. Taylor 10932*; along Lake Oberlin, 1 mi S of Oberlin, 27 Jul 1963, *J. & C. Taylor 1961* (OKL); blind lake, 3 mi S and 2 mi E of Albany, 11 Jun 1964, *J. & C. Taylor 2227* (OKL), spring-fed stream in flats below Denison Dam on Red River, 8 Jul 1959, *W. T. Penfound s.n.* (OKL); Cleveland Co.: north side of South Canadian River, SW of Norman near site of old 2 lane bridge, 6 Jul 1976, *J. Taylor 22883*; Jackson Co.: gypsum area along Red River, 4 mi S and 4 mi E of Eldorado, 10 Jul 1976, *J. Taylor 22633*.

LITHOSPERMUM MULTIFLORUM Torr. ex Gray OKLAHOMA. Cimarron Co.: edge of Lake Carl Etling, NW of Boise City, moist disturbed habitat, 31 May 1967, *J. & C. Taylor 3816*; Jackson Co.: gypsum area along Red River, 4 mi S and 4 mi E of Eldorado. 10 Jul 1976, *J. Taylor 22636*.

RUDBECKIA TRILOBIA L. TEXAS. Lamar Co.: roadside near creek bottom, 4 mi W of Paris, 30 May 1972, *J. & C. Taylor 10605*.

REFERENCES

- ENGELMANN, G. 1878 .The species of *Isoetes* of the Indian Territory. Botanical Gazette 3: 1.
 TAYLOR, R. J. AND C. E. TAYLOR. 1977. The rare and endangered *Hypoxis longii* Fern. (Amaryllidaceae) in Oklahoma. Bull. Torrey Bot. Club 104: 276.
 TAYLOR, R. J. and C. E. TAYLOR. 1980. *Hypoxis longii*, Status Report. Fish and Wildlife Service, Albuquerque, New Mexico.